EDS at DPG Plan

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ANNEX J CHEMICAL AGENT WORKER POPULATION LIMIT EXCURSION PLAN

U.S. Army Chemical Materials Agency

Project Manager for Non-Stockpile Chemical Materiel

Chemical Agent Worker Population Limit Excursion Plan for the Explosive Destruction System at Dugway Proving Ground

Final Revision 2

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March 2009

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1. **PURPOSE**

The purpose of this plan is to provide information that will be used to investigate, identify, and control sources of identified excursions of chemical agents above the worker population limit (WPL) in areas where excursions are not expected during Explosive Destruction System (EDS) operations at Dugway Proving Ground (DPG).

2. **TERMS**

WPL. The WPL is the maximum allowable 8-hour time-weighted average concentration of chemical agent that an unmasked worker could be exposed to for an 8-hour workday and 40-hour week for 30 years without adverse effect. Table J-1 contains the applicable WPLs for the chemical agent of concern during EDS at DPG operations.

Table J-1. Applicable WPLs for Chemical Agents

8-Hour Worker Population Limit ^a (mg/m³)
0.0004
0.00003
0.00001
0.00003

Notes:

GB = sarin GD soman

HD distilled sulfur mustard HT thickened mustard mg/m^3 milligram per cubic meter

O-ethyl S-(2-diisopropylaminoethyl)methylphosphonothioate VX

CMA Programmatic Monitoring Concept Plan, June 2004.

The mixture HT shall be monitored for HD.

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WPL Excursion. A WPL excursion is defined as WPL readings above 1.0 WPL that do

not coincide with near real-time (NRT) monitoring greater than or equal to the NRT

alarm level.

WPL Excursion Response. This WPL excursion response is defined primarily as a

medical response when an airborne concentration of chemical agent is greater than the

established WPL. It does not necessitate emergency response or an immediate threat

to life, but will result in direction given by a competent medical authority (DPG-U.S.

Army Health Clinic or other appropriate medical support) to determine any health risks

or potential adverse effects. However, a WPL excursion greater than the short-term

exposure limit (STEL) is considered a chemical agent event and requires that the

appropriate emergency response be initiated.

3. OPERATING PROCEDURES

3.1 Notice of WPL Excursion/Emergency Response

If air monitoring results indicate an excursion of chemical agent above the WPL in a

location where an excursion was not expected (that is, outside of engineering controls),

the following steps will be followed:

a. The monitoring team lead will immediately notify the Safety and Health

Officer (SHO) of the WPL excursion.

b. The SHO will ensure that the area(s) involved in the excursion will be

promptly restricted, transients will be limited, and personal protective

equipment (PPE) levels will be increased until the cause is evaluated and

corrected. See **Appendix J-1** for an example of a Notice of Restricted

Area.

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- c. The SHO will notify the EDS System Manager and provide the following information to the DPG Emergency Operations Center (911 from a government phone):
 - Location of the excursion
 - Period of time during which excursion occurred
 - Name of chemical agent observed
 - WPL for chemical agent monitored in milligrams per cubic meter (mg/m³)
 - Amount of exceedance in mg/m³
 - Statement of proposed action to limit future excursions
 - Safety point of contact (POC) with phone number.
- d. The notice of excursion will be posted as soon as possible after the determination of the excursion in a manner that informs all possible affected personnel of the excursion. The notice will be posted for at least 3 days or until the cause of the excursion has been corrected. The following information will be posted:
 - Location of the excursion
 - Period of time during which excursion occurred
 - Name of chemical agent observed

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WPL for chemical agent monitored in mg/m³

Amount of exceedance in mg/m³

Statement of proposed action to limit future excursions

Safety POC with phone number

Medical POC (Ditto Aid Station) with phone number

 Statement concerning the health significance of the excursion, with concurrence of the competent medical authority.

Appendix J-1 contains an example of a Notice of Excursion.

3.2 Investigation of WPL Excursions

Investigations of all WPL excursions will be performed to determine the cause, control the source of the excursion, and prevent future occurrences. Techniques for controlling excursions might include conducting additional monitoring, reviewing operational procedures, evaluating engineering controls, and/or other procedures as determined by the SHO and EDS System Manager. All information relevant to the investigation will be provided to the DPG Clinic.

Instances of excursions will be reviewed or analyzed at least annually to determine any trends.

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APPENDIX J-1 NOTICE OF EXCURSION AND NOTIFICATION OF RESTRICTED AREA

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NOTICE OF EXCURSION

_ocation: Period of time excursion	occurrea:				
Chemical agent observed:					
NPL for chemical agent (mg/m³):					
Amount Detected (mg/m³):					
Amount of exceedance (mg/m³):					
Statement of proposed action to limit future excursions:					
Medical POC:and statement of health significance of excursion	Phone number: (including CMA concurrence):				
Safety POC:	Phone number:				

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RESTRICTED AREA

Entrance Requirements: